

AIM: 5-4 I will be able to ADD & SUBTRACT fractions and mixed numbers!

Name _____
Mrs. Ashley

Date _____
Math 6

KEY CONCEPT 1: Adding and Subtracting Fractions with COMMON DENOMINATORS

- Add or subtract the numerators, **KEEP** the denominator.
- Add or subtract whole numbers, if possible.
- Simplify fraction, if possible.

a) $6\frac{3}{9} + 4\frac{1}{9}$ $10\frac{3+1}{9} = 10\frac{4}{9}$	b) $\frac{7}{8} - \frac{3}{8}$ $\frac{7-3}{8} = \frac{4}{8} = \frac{1}{2}$
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KEY CONCEPT 2: Adding and Subtracting Fractions with UNLIKE DENOMINATORS

Traditional Method using 4-SQUARE

STEP 1: WRITE $\frac{2}{4} + \frac{1}{3}$	STEP 2: FIND LCD 4, 8, 12 , 16... 3, 6, 9, 12 .. LCD: 12
STEP 3: REWRITE AND SOLVE $\frac{2 \cdot 3}{4 \cdot 3} + \frac{1 \cdot 4}{3 \cdot 4}$ ↓ $\frac{6}{12} + \frac{4}{12} = \frac{10}{12}$	STEP 4: SIMPLIFY, IF POSSIBLE. $\frac{10 \div 2}{12 \div 2} = \frac{5}{6}$

<p><u>STEP 1: WRITE</u></p> $8\frac{2}{3} - 5\frac{4}{9}$	<p><u>STEP 2: FIND LCD</u></p> $3, 6, \textcircled{9} \dots$ $\textcircled{9}, 18 \dots$ <p>LCD: 9</p>
<p><u>STEP 3: REWRITE AND SOLVE</u></p> $8\frac{2 \cdot 3}{3 \cdot 3} - 5\frac{4}{9}$ $\downarrow \quad \downarrow$ $8\frac{6}{9} - 5\frac{4}{9} = 3\frac{2}{9}$	<p><u>STEP 4: SIMPLIFY, IF POSSIBLE.</u></p> $\textcircled{3\frac{2}{9}}$

<p><u>STEP 1: WRITE</u></p> $\frac{2}{3} - \frac{3}{5} + 1\frac{5}{15}$	<p><u>STEP 2: FIND LCD</u></p> $3, 6, 9, 12, \textcircled{15} \dots$ $5, 10, \textcircled{15} \dots$ $\textcircled{15} \dots$ <p>LCD: 15</p>
<p><u>STEP 3: REWRITE AND SOLVE</u></p> $\frac{2 \cdot 5}{3 \cdot 5} - \frac{3 \cdot 3}{5 \cdot 3} + 1\frac{5}{15}$ $\downarrow \quad \downarrow$ $\frac{10}{15} - \frac{9}{15} + 1\frac{5}{15}$	<p><u>STEP 4: SIMPLIFY, IF POSSIBLE.</u></p> $1\frac{6 \div 3}{15 \div 3} = \textcircled{1\frac{2}{5}}$

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$$1\frac{5}{15} + 1\frac{5}{15} = 1\frac{6}{15}$$